## WHAT IS CLAIMED IS:

- 1. A composition of matter selected from the group consisting of:
  - a) a substantially pure or recombinant FDF03 protein or peptide exhibiting at least about 85% sequence identity over a length of at least about 12 amino acids to a mature polypeptide from SEQ ID NO: 2 or 4;
  - b) a natural sequence FDF03 of SEQ ID NO: 2 or 4;
  - c) a fusion protein comprising FDF03 sequence;
  - d) a substantially pure or recombinant YE01 protein or peptide exhibiting at least about 85% sequence identity over a length of at least about 12 amino acids to a mature polypeptide from SEQ ID NO: 6, 8, or 10;
  - e) a natural sequence YEO1 of SEQ ID NO: 6, 8, or 10;
  - f) a fusion protein comprising YE01 sequence;
  - g) a substantially pure or recombinant KTE03 protein or peptide exhibiting at least about 85% sequence identity over a length of at least about 12 amino acids to SEQ ID NO: 12, 14, 16, 18, 20, or 22;
  - h) a natural sequence KTE03 of SEQ ID NO: 12, 14, 16, 18, 20, or 22; and
  - i) a fusion protein comprising KTE03 sequence.
- 2. A substantially pure or isolated protein comprising a segment exhibiting sequence identity to a corresponding portion of a FDF03, YE01, or KTE03 of Claim 1, wherein:
  - a) said homology is at least about 90% identity and said portion is at least about 9 amino acids;
  - b) said homology is at least about 80% identity and said portion is at least about 17 amino acids; or
  - c) said homology is at least about 70% identity and said portion is at least about 25 amino acids.

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3.	The composition of matter of Claim 1, wherein		
said:			
a)	FDF03 comprises a mature sequence of Table 1;		
b)	YE01 comprises a mature sequence of Table 2;		
c)	KTE03 comprises a mature sequence of Table 3;		

d) protein or peptide:

- i) is from a warm blooded animal selected from a mammal, including a primate or rodent;
- ii) comprises at least one polypeptide segment of SEQ ID NO: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, or 22;
- iii) exhibits a plurality of portions exhibiting said identity;
- iv) is a natural allelic variant of FDF03, YE01,
   or KTE03;
- v) has a length at least about 30 amino acids;
- vi) exhibits at least two non-overlapping epitopes which are specific for a mammalian FDF03, YE01, or KTE03;
- vii) exhibits a sequence identity at least about 90% over a length of at least about 20 amino acids to a rodent FDF03, YE01, or KTE03;
- viii) exhibits at least two non-overlapping
   epitopes which are specific for a primate
   FDF03, YE01, or KTE03;
- ix) exhibits a sequence identity at least about 90% over a length of at least about 20 amino acids to a primate FDF03, YE01, or KTE03;
- x) is glycosylated;
- xi) has a molecular weight of at least 7 kD with natural glycosylation;
- xii) is a synthetic polypeptide;
- xiii) is attached to a solid substrate;
- xiv) is conjugated to another chemical moiety;
- xv) is a 5-fold or less substitution from natural sequence; or

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- xvi) is a deletion or insertion variant from a
  natural sequence.
- 4. A composition comprising:
  - a) a sterile FDF03 protein or peptide of Claim 1;
  - b) said FDF03 protein or peptide of Claim 1 and a carrier, wherein said carrier is:
    - i) an aqueous compound, including water, saline, and/or buffer; and/or
    - ii) formulated for oral, rectal, nasal, topical,
       or parenteral administration;
  - c) a sterile YE01 protein or peptide of Claim 1;
  - d) said YE01 protein or peptide of Claim 1 and a carrier, wherein said carrier is:
    - i) an aqueous compound, including water, saline, and/or buffer; and/or
    - ii) formulated for oral, rectal, nasal, topical, or parenteral administration;
  - e) a sterile KTE03 protein or peptide of Claim 1; or
  - f) said KTE03 protein or peptide of Claim 1 and a carrier, wherein said carrier is:
    - i) an aqueous compound, including water, saline, and/or buffer; and/or
    - ii) formulated for oral, rectal, nasal, topical, or parenteral administration.
- 5.. The fusion protein of Claim 1, comprising:
  - a) mature protein sequence of Table 1, 2, or 3;
  - b) a detection or purification tag, including a FLAG,His6, or Ig sequence; or
  - c) sequence of another cell surface protein.
- 6. A kit comprising a protein or polypeptide of Claim 1, and:
  - a) a compartment comprising said protein or polypeptide; and/or

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- b) instructions for use or disposal of reagents in said kit.
- 7. A binding compound comprising an antigen binding portion from an antibody, which specifically binds to a natural FDF03, YE01, or KTE03 protein of Claim 1, wherein:
  - a) said protein is a rodent protein;
  - b) said binding compound is an Fv, Fab, or Fab2 fragment;
  - c) said binding compound is conjugated to another chemical moiety; or
  - d) said antibody:
    - i) is raised against a peptide sequence of a mature polypeptide of Table 1, 2, or 3;
    - ii) is raised against a mature FDF03, YE01, or KTE03;
    - iii) is raised to a purified FDF03, YE01, or KTE03;
    - iv) is immunoselected:
    - v) is a polyclonal antibody;
    - vi) binds to a denatured FDF03, YE01, or KTE03;
    - vii) exhibits a Kd to antigen of at least 30 μM;
    - viii) is attached to a solid substrate,
       including a bead or plastic membrane;
    - ix) is in a sterile composition; or
    - x) is detectably labeled, including a radioactive or fluorescent label.
- 8. A kit comprising said binding compound of Claim 7, and:
  - a) a compartment comprising said binding compound;
     and/or
  - b) instructions for use or disposal of reagents in said kit.
- 9. The kit of Claim 8 capable of making a qualitative or quantitative analysis.

	10.	A composition comprising:
	a)	a sterile binding compound of Claim 7; or
	b)	said binding compound of Claim 7 and a carrier,
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		i) an aqueous compound, including water, saline,
		and/or buffer; and/or
		ii) formulated for oral, rectal, nasal, topical,
		or parenteral administration.
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	11.	An isolated or recombinant nucleic acid encoding
	a protein	or peptide or fusion protein of Claim 1, wherein:
	a)	said protein is from a mammal, including a
		primate; or
15	b)	said nucleic acid:
		i) encodes an antigenic peptide sequence of
		Table 1, 2, or 3;
		ii) encodes a plurality of antigenic peptide
		sequences of Table 1, 2, or 3;
20		iii) exhibits at least about 80% identity to a
		natural cDNA encoding said segment;
		iv) is an expression vector;
		v) further comprises an origin of replication;
25		vi) is from a natural source;
25		vii) comprises a detectable label;
		viii) comprises synthetic nucleotide sequence;
		ix) is less than 6 kb, preferably less than 3
		kb;
30		x) is from a mammal, including a primate; xi) comprises a natural full length coding
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		sequence;
		xii) is a hybridization probe for a gene

xiii) is a PCR primer, PCR product, or

mutagenesis primer.

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- 12. A cell or tissue comprising a recombinant nucleic acid of Claim 11.
- 13. The cell of Claim 12, wherein said cell is:
- a) a prokaryotic cell;
  - b) a eukaryotic cell;
  - c) a bacterial cell;
  - d) a yeast cell;
  - e) an insect cell;
  - f) a mammalian cell;
  - g) a mouse cell;
  - h) a primate cell; or
  - i) a human cell.
- 15 14. A kit comprising said nucleic acid of Claim 11, and:
  - a) a compartment comprising said nucleic acid;
  - b) a compartment further comprising a FDF03, YE01, or KTE03 protein or polypeptide; and/or
  - b) instructions for use or disposal of reagents in said kit.
  - 15. The kit of Claim 14 capable of making a qualitative or quantitative analysis.
  - 16. A nucleic acid which:
    - a) hybridizes under wash conditions of  $30^{\circ}$  C and less than 2M salt to the coding portion from SEQ ID NO: 1 or 3;
    - b) hybridizes under wash conditions of 30°C and less than 2 M salt to the coding portion from SEQ ID NO: 5, 7, or 9;
    - c) hybridizes under wash conditions of 30°C and less than 2M salt to the coding portion from SEQ ID NO: 11, 13, 15, 17, 19, or 21;

- d) exhibits at least about 85% identity over a stretch of at least about 30 nucleotides to a primate FDF03;
- e) exhibits at least about 85% identity over a stretch of at least about 30 nucleotides to a primate YE01; or
- f) exhibits at least about 85% identity over a stretch of at least about 30 nucleotides to a primate KTE03.

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- 17. The nucleic acid of Claim 16, wherein:
  - a) said wash conditions are at  $45^{\circ}$  C and/or 500 mM salt; or
  - b) said identity is at least 90% and/or said stretch is at least 55 nucleotides.
- 18. The nucleic acid of Claim 17, wherein:
  - a) said wash conditions are at  $55^{\circ}$  C and/or 150 mM salt; or
  - b) said identity is at least 95% and/or said stretch is at least 75 nucleotides.
- 19. A method of modulating physiology or development of a cell or tissue culture cell comprising contacting said cell with an agonist or antagonist of a FDF03, YE01, or KTE03.
- 20. The method of Claim 19, wherein the cell is a leukocyte, and the antagonist is to YE01 and is a monoclonal antibody which binds to DLAIR-1.